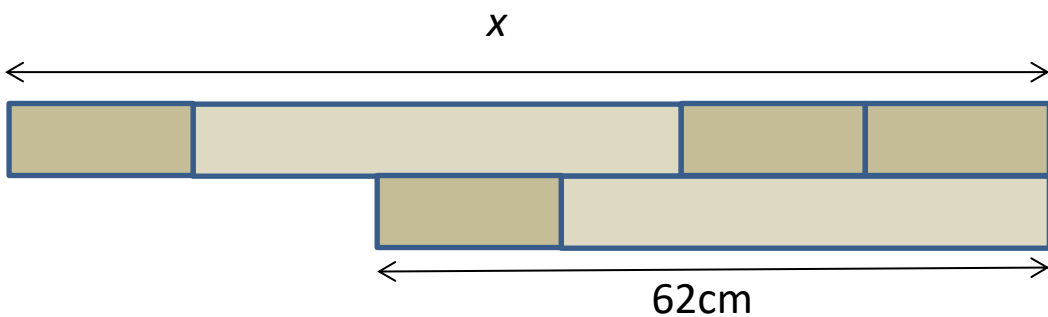


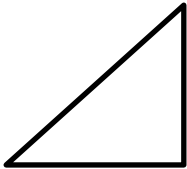
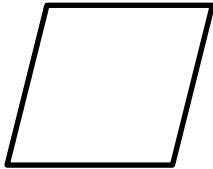
Arithmetic				1
1	$877 \div 2 =$	11	$3.4 \times 6 =$	
2	$= 1,001 - 7$	12	$7 \times 67 =$	
3	$88 \times 1,000 =$	13	$811 + 300 =$	
4	$80.02 - 9.194 =$	14	$2.84 \div 10 =$	
5	$35\% \text{ of } 2,200 =$	15	$593 \times 79 =$	
6	$100,099 - 8,099 =$	16	$59 + (4 \times 9) =$	
7	$4,910 + 901 =$	17	$255 \div 6 =$	
8	$4,976 \div 5 =$	18	$2,381 \times 72 =$	
9	$6\frac{1}{8} + \frac{1}{2} =$	19	$\frac{3}{10} \div 5 =$	
10	$\frac{12}{50} - \frac{1}{5} =$	20	$1\frac{1}{2} \times 13 =$	

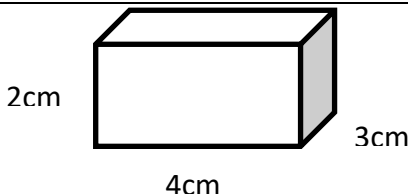
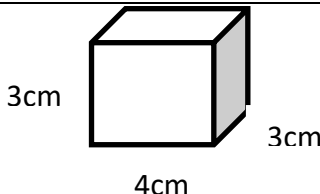
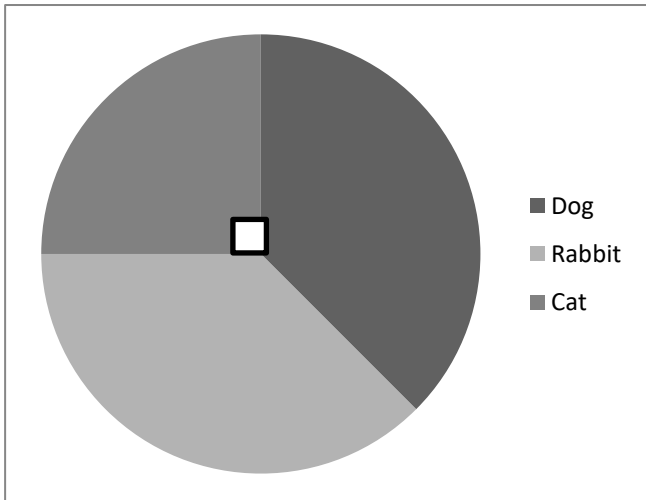
Reasoning			
1	Complete this table with the missing numbers. One row has been done for you.		
	Number	1,000 less	
	4,354	3,354	
	34,721		
		9,583	
		10,587	
2	Two fractions add together to equal 1. One fraction is $\frac{3}{10}$. What is the other fraction?		
3	Joseph is practising long jump. He has five attempts. a) What is the difference between his longest jump and his shortest jump? b) What was the mean length of his jump?	Attempt	Length (cm)
		1	101
		2	99
		3	100
		4	90
		5	95
4	Here is a number line. Work out the following: $x =$ $z =$		
	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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Arithmetic					2
1	4,590 + 18 =		11	9.91 + 1.006 =	
2	44,560 – 4,568 =		12	5,780 ÷ 4 =	
3	5.9 – 2.193 =		13	7 X 98 =	
4	100 X 733 =		14	35.8 ÷ 100 =	
5	401 X 97 =		15	= 52,137 – 13,738	
6	72 - (44 ÷ 4) =		16	593,882 + 9,558 =	
7	693 X 19 =		17	90% of 6,300 =	
8	8,486 ÷ 8 =		18	5.5 X 9 =	
9	$\frac{4}{5} \div 8 =$		19	$\frac{2}{7} + \frac{3}{9} =$	
10	$\frac{56}{100} - \frac{18}{100} =$		20	$\frac{3}{7} \times 49 =$	
Reasoning					
1	Circle the fractions, decimals and/or percentages that are equivalent.				
	0.75	$\frac{5}{7}$	25%	$\frac{3}{4}$	
2	Write in the missing fraction.				
	$\frac{1}{2} + \frac{1}{3} + \boxed{} = 1$				
3.	A school fair starts at 10:15am. It lasts for 4 hours and 30 minutes. When does it finish?				
4	Fill in the missing boxes.				
		2		9	
	+		5		
		9	9	2	
5	$n = 13$ What is $2n + 8$?		$3b + 1 = 100$ What is the value of b ?		

Arithmetic					3		
1	2,902 + 10 =		11	2.9 + 3.907 =			
2	10 – 0.1 =		12	45,396 – 27,859 =			
3	490 ÷ 1,000 =		13	10 X 34,671 =			
4	3.5 X 7 =		14	1,346 ÷ 8 =			
5	25% X 1,800 =		15	70 X 30 =			
6	5 ² + 10 =		16	843,121 + 27,285 =			
7	= 5,981 – 198		17	431 X 73 =			
8	9,732 ÷ 5 =		18	7.82 X 8 =			
9	$\frac{5}{6} \times 3 =$		19	$\frac{1}{3} - \frac{1}{7} =$			
10	$\frac{1}{7} + \frac{1}{2} + \frac{1}{4} =$		20	$\frac{4}{5}$ of 70 =			
Reasoning							
1	Write in the missing numbers in this number pattern.						
		64	76		100	112	
2	Maks has two different sizes of rectangle. He creates this shape.					22cm	
							
	Calculate the length of x.						
3	Convert these Roman numerals.			XIV =			
	MMVI =			MCMXC =			
4	James starts with a number. He takes away 7 and ends up with -2. What was his original number?						
5	Round 77,678		to the nearest 1,000				
			to the nearest 100				
			to the nearest 10				

Arithmetic				4
1	$678,901 + 73,664 =$	11	$99\% \times 1,300 =$	
2	$34,002 - 5,604 =$	12	$21.9 - 1.899 =$	
3	$77 \div 7 =$	13	$1,000 \times 7,558 =$	
4	$600 \times 7 =$	14	$345,287 \div 1,000 =$	
5	$5.6 \times 4 =$	15	$92 \times 6 =$	
6	$12^2 - 3^2 =$	16	$7,881 \div 37 =$	
7	$9 \times 8 =$	17	$928 \times 32 =$	
8	$7,452 \div 12 =$	18	$\quad\quad\quad = 4,957 + 643$	
9	$\frac{2}{3} \times 5 =$	19	$\frac{7}{9} \div 5 =$	
10	$\frac{1}{6} + \frac{2}{7} =$	20	$\frac{5}{9} \times 4 =$	

Reasoning				
1	Calculate the area of these shapes. Not to scale.			
				
	Area = cm ²		Area = cm ²	
2	Isabel has two £10 notes. She buys 3 bottles of milk and is given £18.14 change. How much is 1 bottle of milk?			
3	Write these numbers in order, starting with the smallest . <div>4.22 2.4 4 4.02 4.044</div>			
	<i>smallest</i>			
4	Percy is mixing paints to create the colour orange. He mixes litres of red and orange, using the ratio 2 : 3. If he had 6 litres of red paint, how many litres of orange would he need?			
5	A pack of paper has 120 pieces of paper. 30 children each take 2 pieces of paper each. How many pieces of paper are left in the pack?			

Arithmetic				5
1	45,678 + 56 =	11	2 + 28.901 =	
2	45,657 – 23,455 =	12	90% of 3,500 =	
3	8,559 ÷ 5 =	13	100 X 56,007 =	
4	800 X 400 =	14	5,730 ÷ 1,000 =	
5	7% X 900 =	15	42 X 93 =	
6	6 ² - 6 =	16	941,000 + 35,406 =	
7	6.7 X 3 =	17	427 X 54 =	
8	8,277 ÷ 6 =	18	11,072 ÷ 16 =	
9	$\frac{3}{7} \times 8 =$	19	$\frac{2}{3} \div 3 =$	
10	$1 - \frac{2}{9} =$	20	$\frac{3}{4} \times 60 =$	
Reasoning				
1	Calculate the volume of these shapes.			Not to scale
				
	Volume = cm ³		Volume = cm ³	
2.	<p>Year 5 did a survey to find out which animal is their favourite. This pie charts shows the results. There are 64 children in Year 5.</p> <p>a) How many children voted for cat?</p> <p>The amount of children who voted for dog and rabbit is equal.</p> <p>b) How many children voted for dog?</p>			
3	Write 2,365,001 in words.			
4	Write the missing number to make this multiplication correct.			
	$0.44 \times \boxed{} = 440$			

